

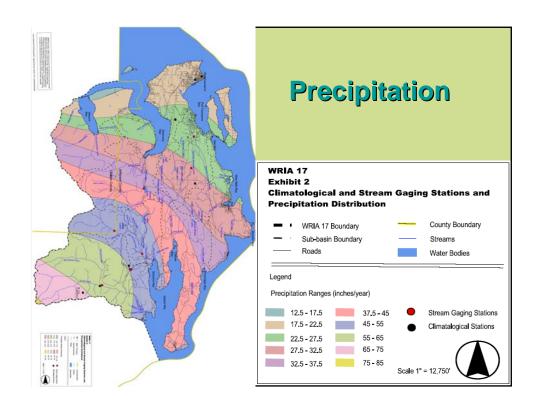
# Surface Water Education in a Rural County

Pat Pearson, Washington State University Jefferson County Extension

National Conference for Nonpoint Source and Stormwater Outreach May 2009









### **Puget Sound Partnership Priority Issues**

**2020 Action Agenda** - Holistic Approach is Needed to Rebuild a Thriving Puget Sound Ecosystem

Protect - Restore - Control/Clean Up Pollution Reduce Stormwater Runoff

**Ensure Adequate Water Protect Biodiversity** 

**Build Human Capacity - Educate and Engage the Public** 



220 species of fish, 20 species marine mammals 100 species of sea birds Thousands of species marine invertebrates

Department of Ecology required the County to create a Surface Water Management Plan

Must include a Surface Water Education Plan

WSU Jefferson County Extension contracted to design the Education Plan



#### **SURVEY**

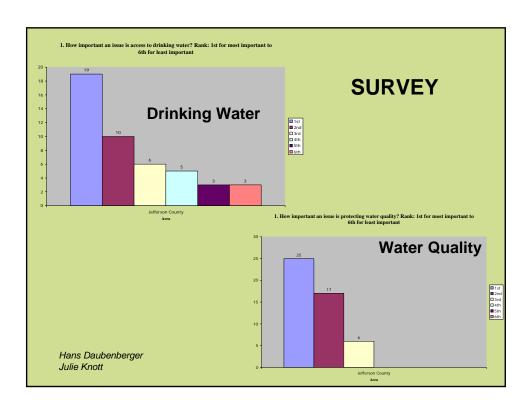
Successful surface and storm water management are critical to protecting water quality.

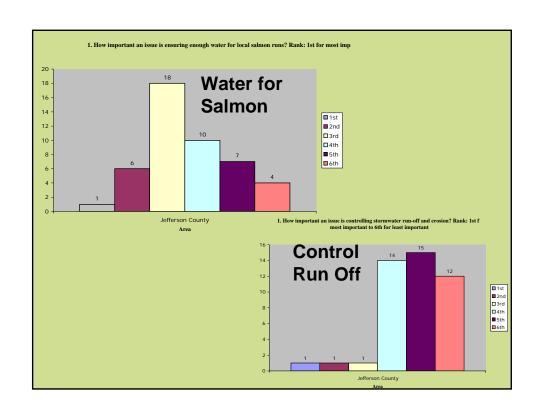
The public must understand the importance of water quality and natural processes and be willing to support activities that protect the environment.

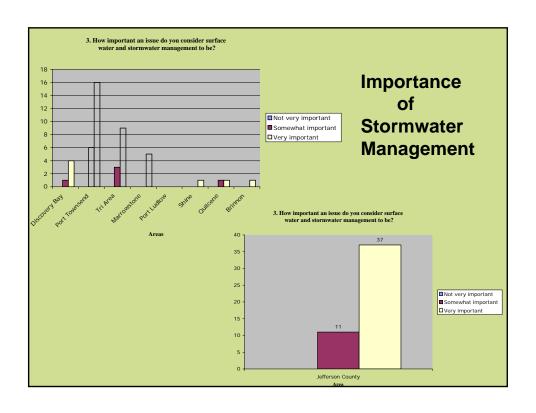
#### **DESIGN & IMPLEMENTATION**

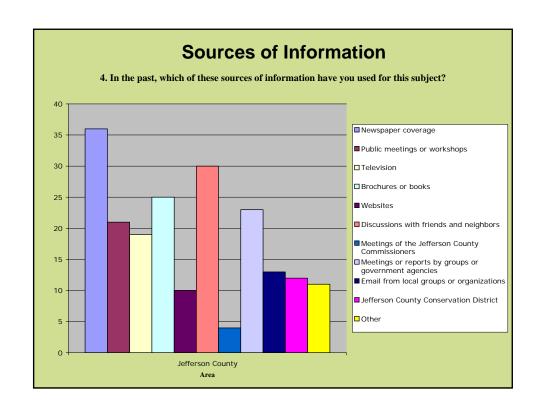
WSU Extension developed:

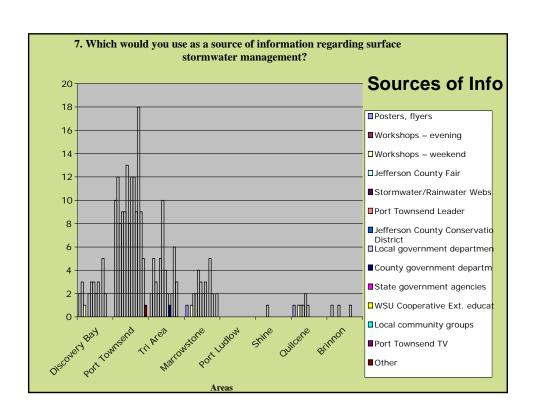
- A community survey to assess awareness & needs
- A county-wide campaign titled "Water Matters"
- Education programs to reach targeted audiences and the general public

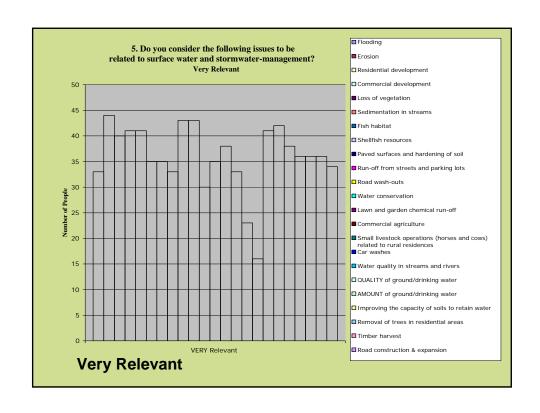


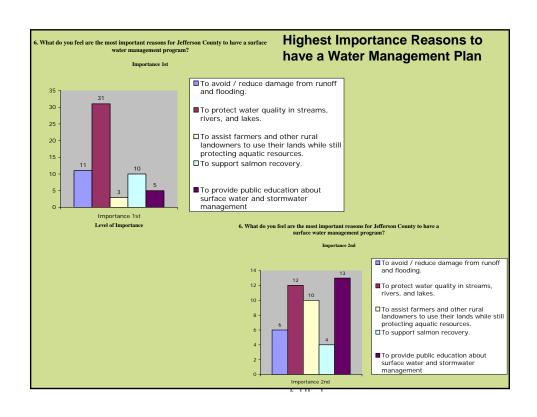


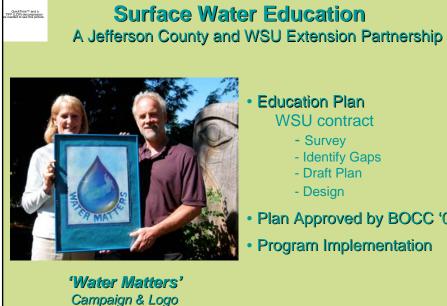












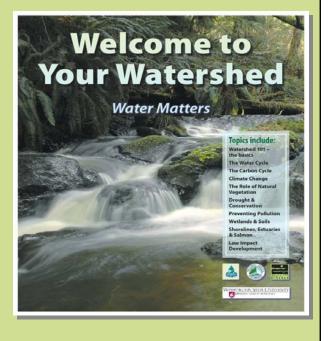
**Education Plan** 

WSU contract

- Survey
- Identify Gaps
- Draft Plan
- Design
- Plan Approved by BOCC '06
- Program Implementation

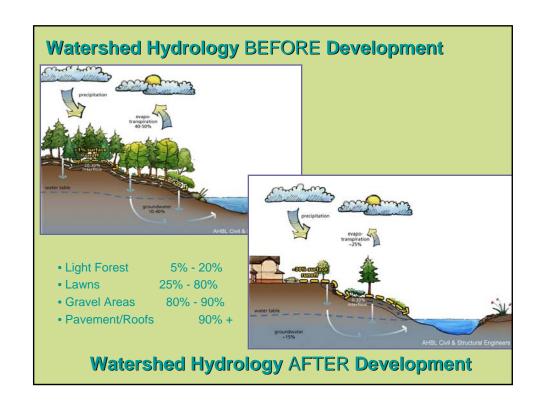
## **Educational** materials distributed to 20,000 residents

- newspaper inserts
- seminars
- libraries
- county agencies
- plant nurseries
- •Stores
- •community events.





Processes, water quality, on-site septics, building issues, natural gardening, landscaping, Who can help



## Welcome to Your Watershed resource folder and a series of three newspaper inserts provided home owners with information about:

- \* Watershed processes
- \* Water quality

\* On-site septics

- \* Building practices
- \* Natural gardening and landscaping
- \* 'Who Can Help' contacts
- \* What residents can do to help keep their waters clean

WSU partners with .....

local realtors to distribute folders to home/property buyers

**WRIA 17 Watershed Group education efforts** 

## INCORPORATE SURFACE WATER EDUCATION INTO CURRENT WSU EXTENSION PROGRAMS

- **❖Water/Beach Watcher trainings**
- **♦ Master Gardeners**
- **♦** Shore Stewards
- Community workshops
- **❖**Realtor workshops



**Partner with Hood Canal Coordinating Council Marine Riparian Initiative** 





#### **SHORE STEWARDS**

QuickTime<sup>74</sup> and a F (Uncompressed) decompress

#### **Shoreline Landowners**

Voluntary - Recognize, educate, assist

Booklet Sign Newsletters

#### **Workshops**

Shoreline processes, erosion, on-site septic maintenance, pesticide and fertilizer use

Site visit technical assistance; soil tests

9 County Expansion - 1,200 participants



# 24 home owner associations, community groups, and neighborhoods requested WSU technical assistance and presentations

- land clearing
- stormwater
- vegetation and planting plans to prevent erosion
- slope instability
- natural processes and watersheds
- pollution/toxics

330 residents attended educational seminars about surface water issues and practical solutions for conserving water and protecting water quality



## Making a Difference.....

#### 2007 Regional Survey Results - 8 counties

82-94% recommended the program or likely to recommend

Respondents follow the 10 guidelines 50-100% of the time, most following 90-100% of the time

**Table 1. Shift in Behaviors** 

Tab	le 2.1	Behav	vior (	Change

Scale	Before Joining	After Joining	Shift Behavior
0 - 5	32 %	2 %	- 30 %
6 -10	68 %	98 %	+ 30 %

% at least one slight change	% at least one major change	
56%	85%	

#### **Bywater Bay Shore Stewards Evaluation**

3 Workshops: Coastal Geology, Nearshore Ecology, On-site septics

Participants rated the quality of the workshop agendas excellent (87%) or good (13%) Oral presentations excellent (96%) or good (4%).

Expectations for the workshops met, 87% of respondents replied *excellent* and 17% *good*. Concerns or questions were answered, 79% rated *excellent*, 8% *good*, and 13% no response

### "GREEN GARDENING" NURSERY PROJECT

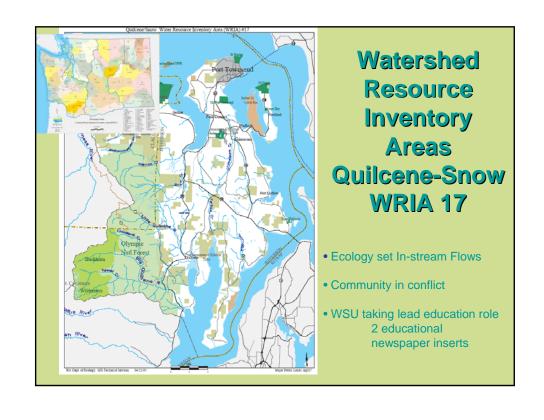
Training and materials to local nurseries

**Workshops** 

Outreach and handouts to customers and public



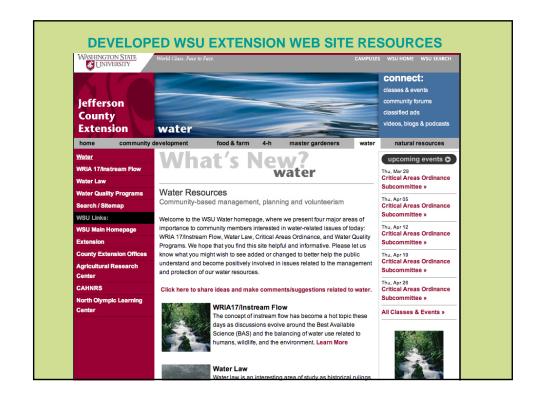






### Making a Difference.....

- Educational materials distributed to 20,000 residents
  - Seminars, libraries, agencies, stores, community events
- Successful ongoing partnership with local realtors
  - Distribute folders to new home and property buyers
- 24 homeowner associations, groups and neighborhoods
  - Requested and received technical assistance
  - Helped them clear land properly, reduce stormwater flow, prevent erosion and instability
- 270 Homeowners attended seminars and workshops
- Local nursery staff trained to encourage sale/use of organics and native plants
  - Customer handouts available
- 55 Master Gardeners providing ongoing information
- Invited to participate in 3 nursery special events
- Created and distributed 2 WRIA 17 educational newspapers





## Thank you

Partners and People who make a difference

Hans Daubenberger
Julie Knott
Paula Makrow, North Olympic Salmon Coalition
Cammy Mills, Shore Stewards
Jefferson County Marine Resources Committee
Jefferson County Conservation District
Hood Canal Coordinating Council, MRI Project
Jefferson County Health Department

